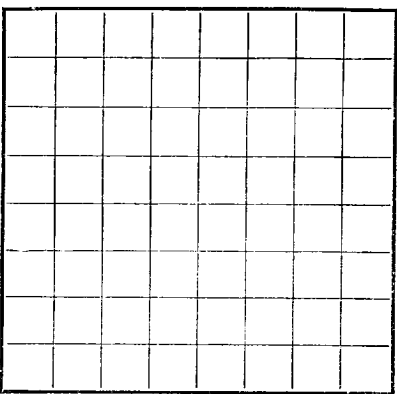




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **LEONARD OIL COMPANY** Address **Box 708, Roswell, New Mexico**
Lessor or Tract **Federal-Hagerty** Field **Wildcat** State **New Mexico**
Well No. **2** Sec. **18** T. **16S** R. **30E** Meridian **N.M.P.M.** County **Eddy**
Location **660** ft. **N.** of **S.** Line and **1980** ft. **W.** of **E.** Line of **Section 18** Elevation **3757'**
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed **Patrick J. Leonard**
Title **Vice-President**

Date **August 6, 1957**

The summary on this page is for the condition of the well at above date.

Commenced drilling **June 20**, 19**57** Finished drilling **July 31**, 19**57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from **2715'** to **2753'** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **440** to **455** No. 3, from _____ to _____
No. 2, from **1956** to **1965** No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32#			563					
8-5/8	24#			2010		Pulled 1910'			Surface Strg
7"	20#			2715					Prod. Strg
2-3/8" TUBING	2715'								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	563'	50 sx neat (Denton)			
7"	2715'	100 sx Pozmix (Denton)			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Treated with 20,000 gal's oil and 30,000# sand (open hole) from 2715-2753;						
Increased production from 8BOPD to 240BOPD						

TOOLS USED

Rotary tools were used from **0** feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

August 6, 19**57** Put to producing **August 5**, 19**57**

The production for the first 24 hours was **240** barrels of fluid of which **100** % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Walker _____, Driller **Jarman** _____, Driller
Spencer _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	30	10	Red Beds
30	130	100	Sand
130	220	90	Red Beds
220	225	5	Lime
225	240	15	Red Beds
240	315	75	Sandy Shale
315	350	35	Red Rock
350	455	105	Anhydrite
455	470	15	Red Shale
470	480	10	Red Beds
480	500	20	Anhydrite
500	534	34	Red Beds
534	542	8	Anhydrite
542	546	4	Red Beds
546	995	449	Salt
995	1055	60	Anhydrite
1055	1060	5	Red Beds & Salt
1060	1210	150	Anhydrite
1210	1250	40	Anhydrite, Red Rock
1250	1640	390	Anhydrite
1640	1655	15	Lime
1655	1898	243	Anhydrite
1898	1908	10	Red Sand
1908	1956	48	Anhydrite

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1956	1990	34	Red Sand
1990	2005	15	Anhydrite
2005	2010	5	Brown Lime
2010	2188	178	Anhydrite
2188	2200	12	Shale & Sand
2200	2218	18	Sand
2218	2238	20	Anhydrite
2238	2248	10	Sand & Anhydrite
2248	2275	27	Anhydrite, Red Sandy Shale
2275	2388	113	Anhydrite
2388	2415	27	Lime
2415	2482	67	Lime
2482	2505	23	Brown Sandy Lime
2505	2523	18	Sandy Lime
2523	2538	15	Lime
2538	2559	21	Sandy Lime
2559	2585	26	Sandy Anhydrite
2585	2625	40	Anhydrite
2625	2632	7	Brown Lime
2632	2673	41	Lime
2673	2689	16	Brown Sandy Lime & Anhydrite
2689	2716	27	Anhydrite & Red Sand
2716	2723	7	Anhydrite & Sand
2723	2742	19	Sand
2742	2753	11	Lime
TD			
1990	1990		
2005	2005		
2010	2010		
2188	2188		
2200	2200		
2218	2218		
2238	2238		
2248	2248		
2275	2275		
2388	2388		
2415	2415		
2482	2482		
2505	2505		
2523	2523		
2538	2538		
2559	2559		
2585	2585		
2625	2625		
2632	2632		
2673	2673		
2689	2689		
2716	2716		
2723	2723		
2742	2742		
2753	2753		
TD			
1003	1003		
1182	1182		
1957	1957		
2722	2722		

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.